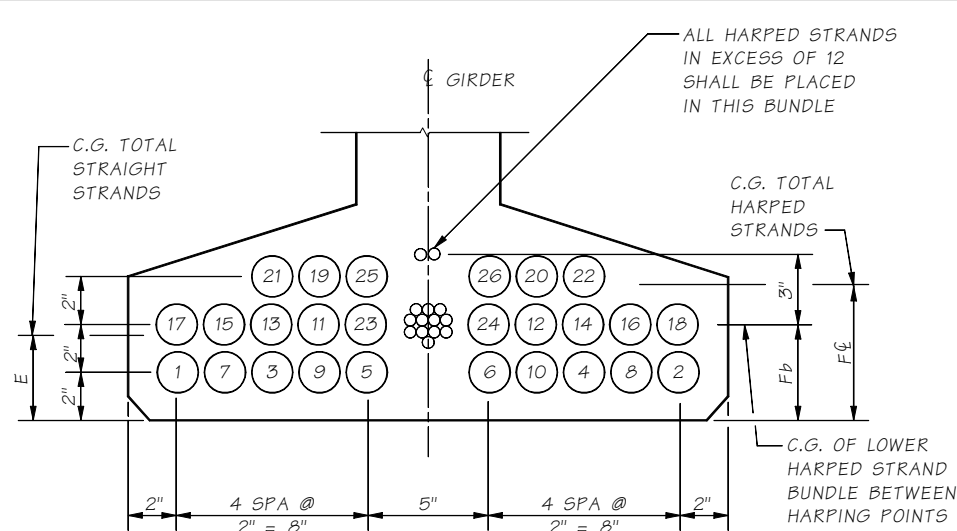


**STRAND PATTERN
AT GIRDER END**

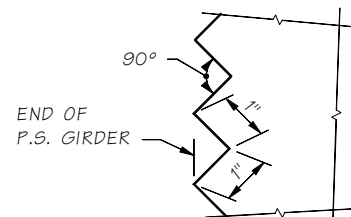
HARPED STRAND LOCATION SEQUENCE SHALL BE AS SHOWN ①, ② ETC.



STRAND PATTERN AT C_g SPAN

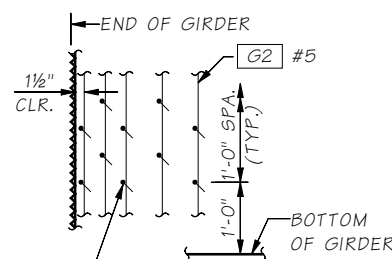
STRAND LOCATION SEQUENCE SHALL BE AS SHOWN ①, ② ETC.

**** THICKEN FLANGE TO COMPENSATE FOR CAMBER DUE TO PRESTRESS. FLANGE THICKNESS SHOWN IS @ C_g OF SPAN. FOR FLANGE THICKENING DETAILS ON BR. SHEET GIRDERS WITH ULTIMATE CAMBER VALUES SMALLER THAN 3/4" ARE EXEMPT FROM THIS REQUIREMENT. FLANGE THICKENING SHALL BE USED ONLY IF NEEDED BY DESIGN.**

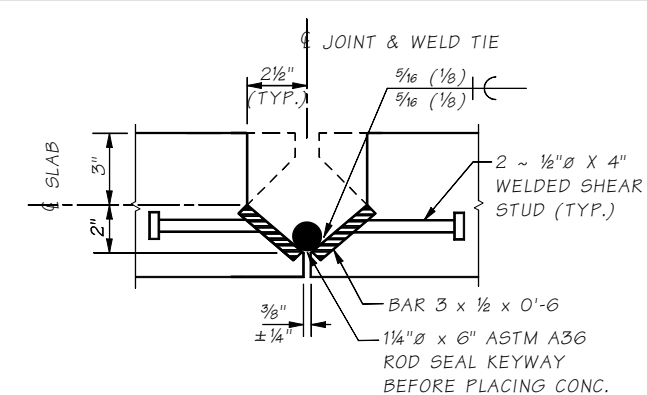


SAWTEETH DETAILS

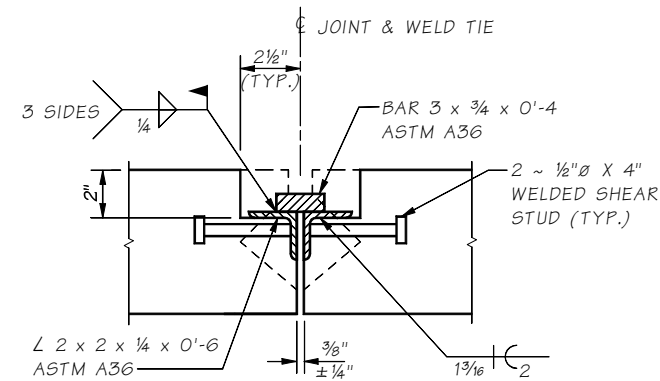
SAWTEETH ARE FULL WIDTH - USE SAWTEETH KEYS FROM BOTTOM OF BOTTOM FLANGE TO BOTTOM OF LOWEST HARPED STRAND



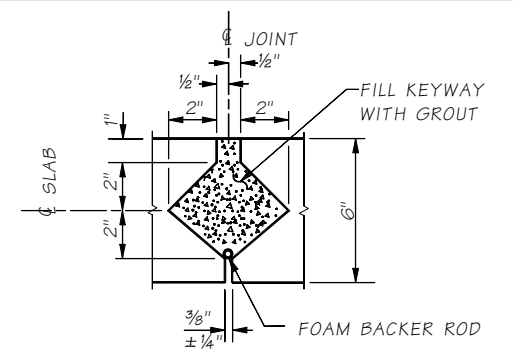
**TIE SPACING
DETAIL**



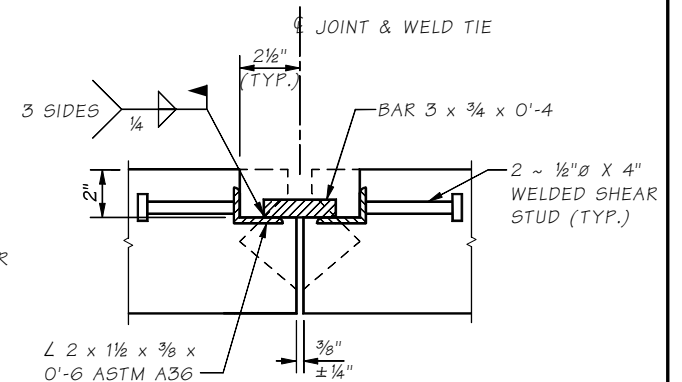
**SECTION B
WELD TIE
ALTERNATE #1**



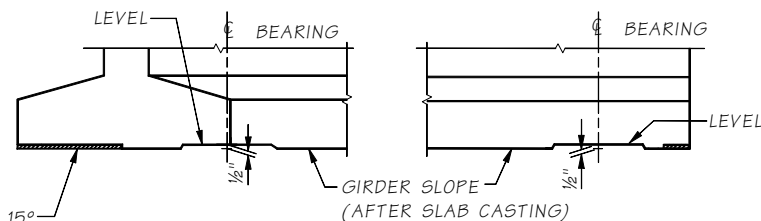
**SECTION B
WELD TIE
ALTERNATE #2**



**SECTION A
KEYWAY**



**SECTION B
WELD TIE
ALTERNATE #3**



ELEVATION

1/2" EXPANDED POLYSTYRENE FOR SKEWS GREATER THAN 15°

3/4" CHAMFER ON FLANGE FOR SKEWS GREATER THAN 15°

1/2" EXPANDED POLYSTYRENE FOR SKEWS GREATER THAN 15°

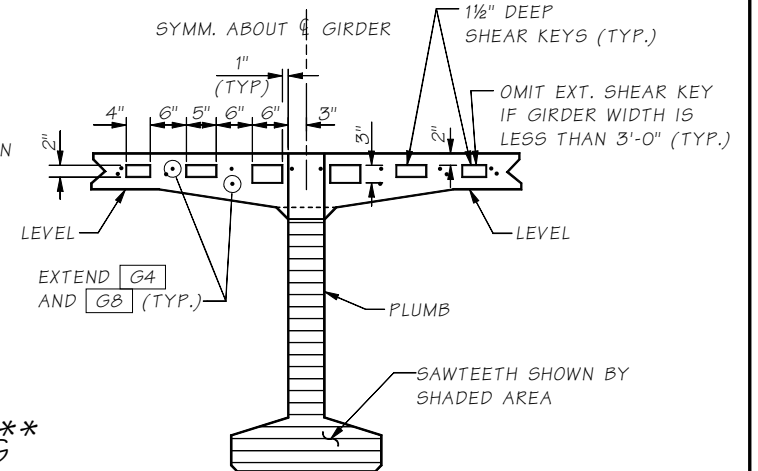
3/4" CHAMFER ON WEB FOR SKEWS GREATER THAN 15°

1/2" EXPANDED POLYSTYRENE FOR SKEWS LESS OR EQUAL THAN 15°

**PLAN - BEARING RECESS & BOTTOM
FLANGE SPALL PROTECTION**

GIRDER FLANGE THICKENING**

GIRDER SCHEDULE



**GIRDER END
AT END PIERS**

NOTE: Dimensions shall be shown in Imperial units to the nearest 1/8th inch.

* The number of harped strands should not exceed 1/2 of the number of straight strands.

SPAN	GIRDER	END 1	END 2	S	LS	θ_1	θ_2	P_1	P_2	PLAN LENGTH (ALONG GIRDER GRADE)	MIN. CONC. COMPR. STRENGTH		HARPED		STRAIGHT		LOCATION OF C.G. STRANDS				CAMBER (IN)		
											@ FINAL F'C KSI	@ RELEASE F'C KSI	NO. OF STRANDS	JACKING FORCE (KIPS)	NO. OF STRANDS	JACKING FORCE (KIPS)	E	F _g	F _b	F _o	RELEASE	50	2000
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Bridge Design Engr.	M:\STANDARDS\Girders\Deck Bulb Tee\W53DG2.man	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By						
Checked By						
Detailed By						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist	DATE	REVISION	BY	APPD		

BRIDGE AND STRUCTURES OFFICE	 Washington State Department of Transportation	STANDARD PRESTRESSED CONCRETE GIRDERS	BRIDGE SHEET NO.
		W53DG DECK BULB TEE GIRDER DETAILS 2 OF 2	SHEET OF SHEETS